

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P531314

Luminaire Tested: **GALN-SA6C-750-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-750-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36393 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

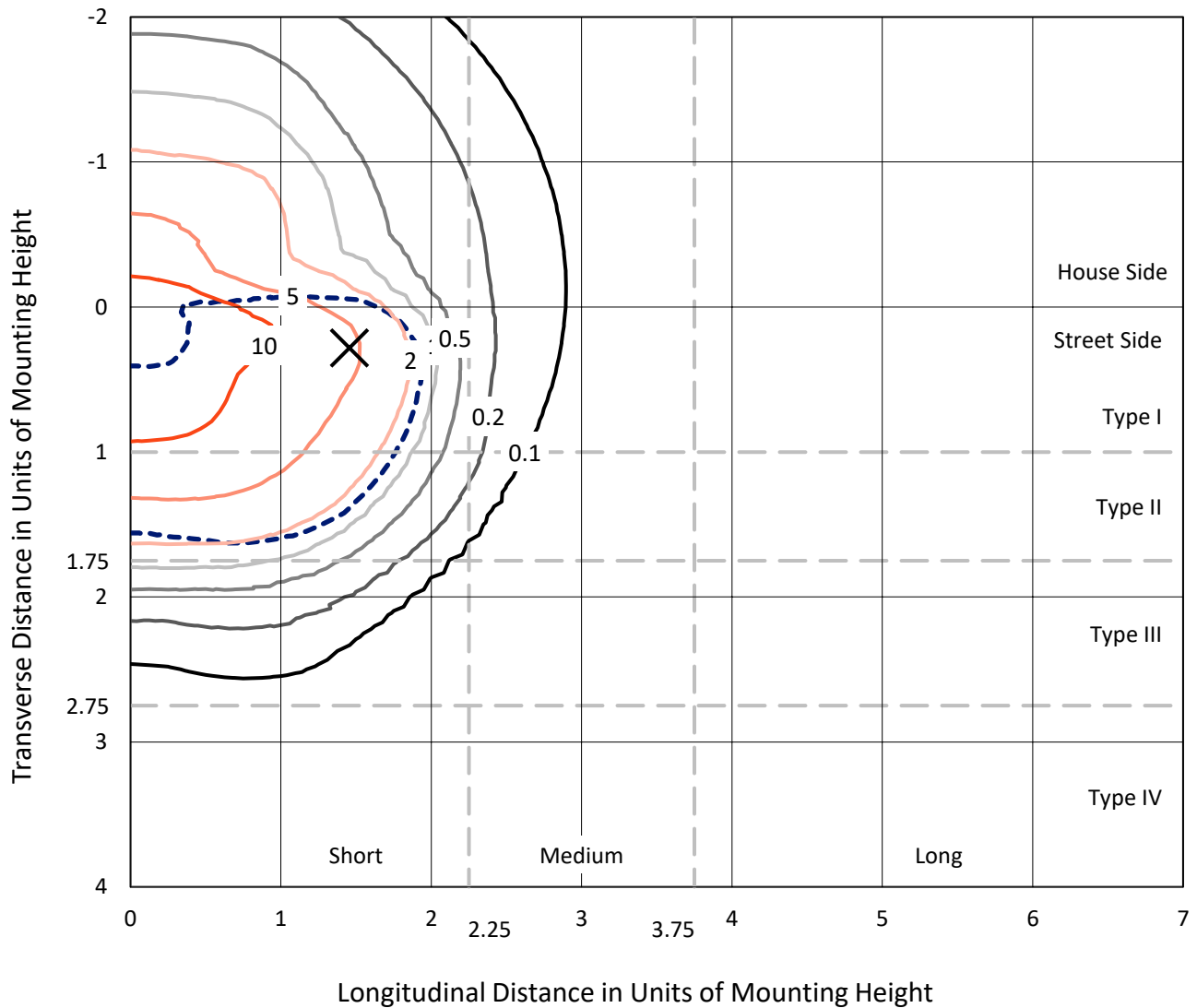
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

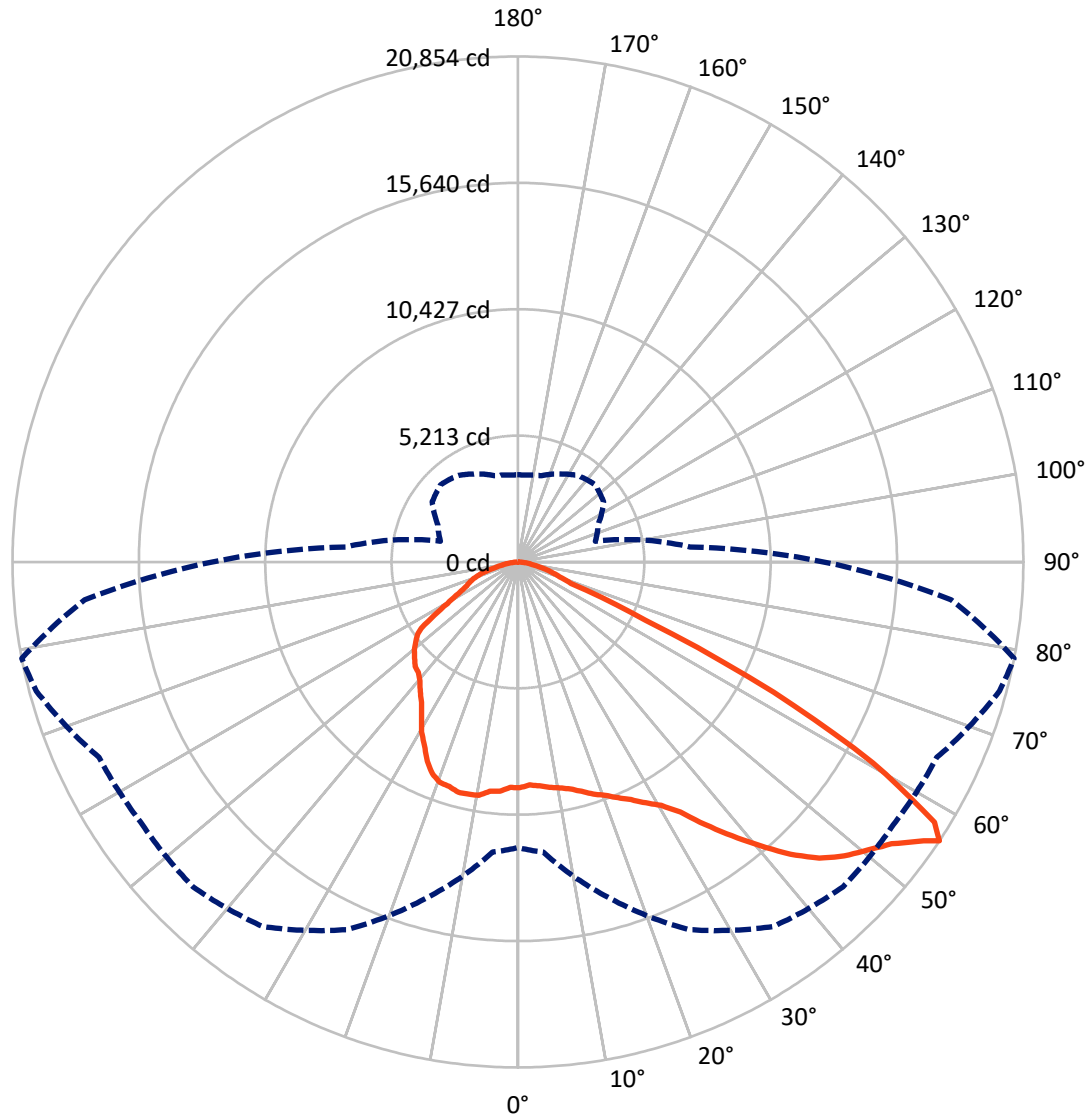
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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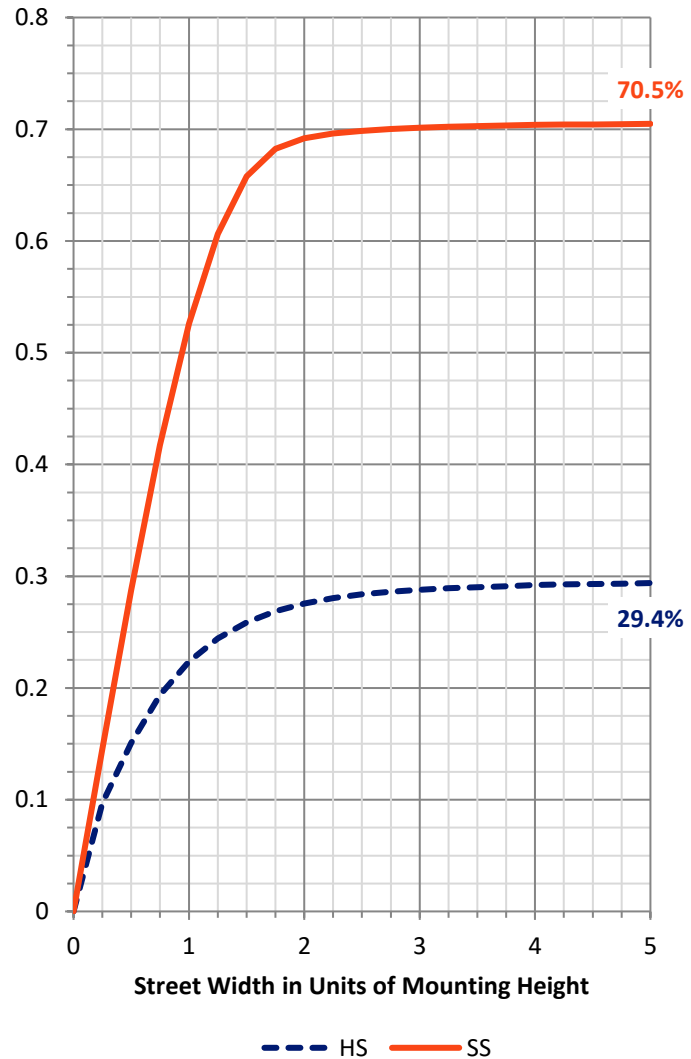
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10747.6	0.0	10747.6
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	25645.3	0.0	25645.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	36393.0	0.0	36393.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	846.6	2.3
10°-20°	2316.9	6.4
20°-30°	3963.8	10.9
30°-40°	6075.0	16.7
40°-50°	8210.3	22.6
50°-60°	9429.8	25.9
60°-70°	4298.4	11.8
70°-80°	1059.8	2.9
80°-90°	192.6	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	36393.0	100.0
0°-180°	36393.0	100.0



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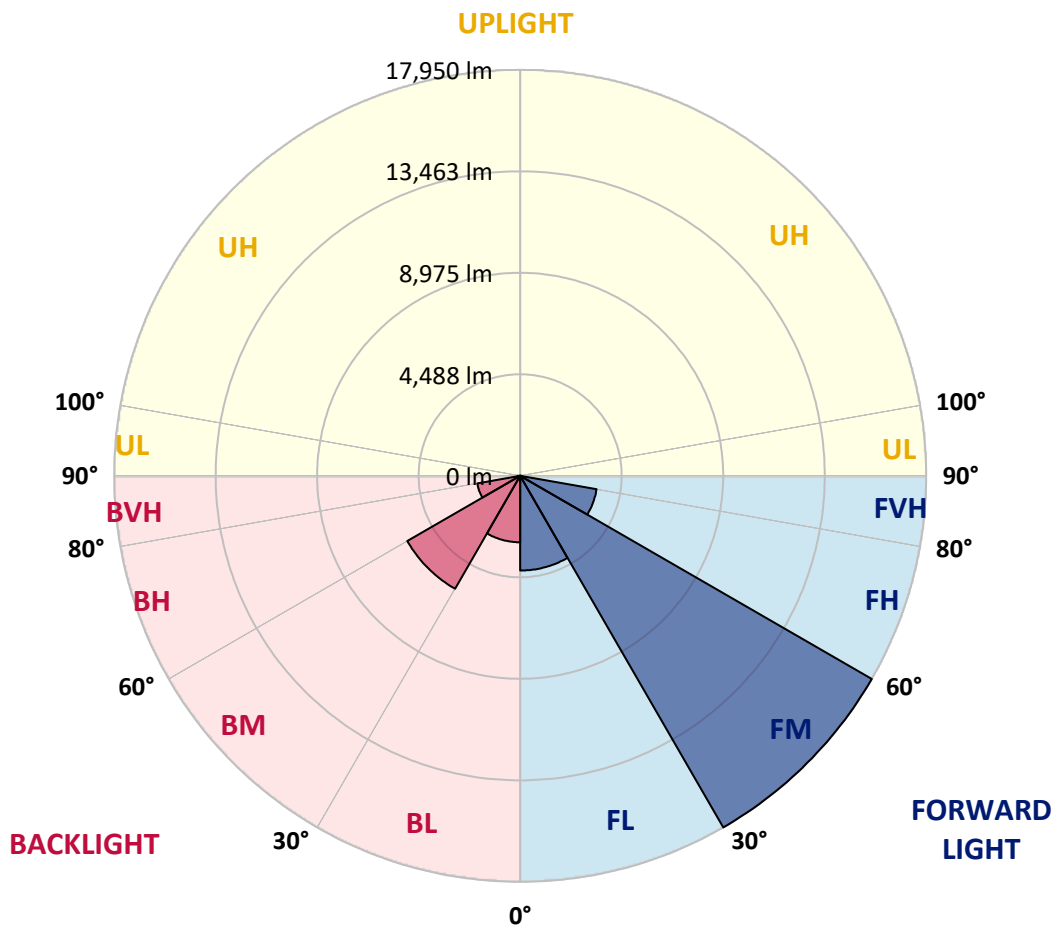
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4187.3	11.5			
FM (30°-60°)	17950.1	49.3			
FH (60°-80°)	3431.0	9.4			G2/5000
FVH (80°-90°)	76.9	0.2			G1/100
BL (0°-30°)	2939.9	8.1	B4/5000		
BM (30°-60°)	5764.9	15.8	B4/8500		
BH (60°-80°)	1927.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	115.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	9311.5	9311.5	9311.5	9311.5	9311.5	9311.5	9311.5	9311.5	9311.5	9311.5	9311.5
2.5°	8858.2	8835.5	8889.9	8930.7	8980.6	9044.1	9075.8	9093.9	9252.6	9211.8	9334.2
5°	8667.8	8608.9	8649.7	8681.4	8767.5	8844.6	8930.7	9066.7	9211.8	9275.3	9424.9
7.5°	8500.1	8468.3	8459.3	8481.9	8599.8	8699.5	8849.1	9048.6	9284.3	9388.6	9474.7
10°	8223.5	8178.2	8246.2	8395.8	8427.5	8636.1	8808.3	9093.9	9297.9	9479.3	9733.1
12.5°	8101.1	8055.8	8069.4	8155.5	8377.7	8577.1	8781.1	9103.0	9533.7	9606.2	9946.2
15°	8296.1	8250.7	8264.3	8241.7	8454.7	8559.0	8880.9	9284.3	9696.9	9819.3	10181.9
17.5°	8740.3	8744.9	8685.9	8636.1	8586.2	8808.3	9030.5	9393.1	9760.3	10068.6	10340.6
20°	9588.1	9438.5	9320.6	9039.5	8962.5	9057.7	9338.7	9687.8	10018.7	10272.6	10580.9
22.5°	10240.9	10254.5	10086.7	9624.3	9456.6	9497.4	9737.7	10023.3	10385.9	10567.3	10920.9
25°	11188.3	11093.1	10911.8	10544.6	10168.3	10200.1	10376.9	10635.3	10735.0	10861.9	11247.3
27.5°	12054.2	12081.4	11723.3	11378.7	10911.8	10821.1	11138.5	11183.8	11016.1	11256.3	11387.8
30°	12933.7	12911.0	12675.3	12271.8	11813.9	11832.1	11972.6	11750.5	11519.3	11650.7	11741.4
32.5°	13844.9	13586.5	13577.4	13214.8	12865.7	12697.9	12525.7	12634.5	12276.3	12303.5	12217.4
35°	14574.8	14611.0	14402.5	14144.1	13971.8	13677.2	13205.7	13400.6	13332.6	13300.9	12929.2
37.5°	15105.2	14964.6	15068.9	14982.8	14819.6	14452.4	13962.8	14148.6	14180.4	14334.5	13903.8
40°	15540.4	15481.4	15758.0	15803.3	15690.0	14896.6	14017.2	14570.2	15046.2	15381.7	14869.4
42.5°	15748.9	15875.8	16166.0	16515.0	16261.2	15413.4	14298.2	14892.1	15952.9	16483.3	15785.2
45°	16030.0	15866.8	16297.4	16936.6	16941.2	15848.6	14570.2	15327.3	16660.1	17430.8	16410.8
47.5°	15744.4	15826.0	16270.2	17081.7	17290.2	16306.5	15304.6	15943.8	17439.8	18124.4	16991.0
50°	15105.2	15268.4	16079.8	16923.0	17553.2	16791.6	16147.8	16610.2	18160.7	18682.0	17086.2
52.5°	14438.8	14529.4	15798.8	17045.4	17671.0	17417.2	17276.6	17530.5	19040.1	19312.1	17204.1
55°	12625.4	13056.1	14869.4	16991.0	18246.8	18546.0	18437.2	18808.9	20037.5	20309.5	17847.9
56°	11786.7	12013.4	14311.8	16737.2	18360.1	18958.5	18904.1	19071.9	20567.9	20853.5	17947.6
57.5°	10236.3	10254.5	12203.8	15612.9	17934.0	19080.9	19026.5	19158.0	20463.6	20268.7	17072.6
60°	6405.6	6686.7	8305.1	12008.9	15250.2	17702.8	18011.1	16954.8	17254.0	16841.4	13282.8
62.5°	3318.4	3277.6	4352.0	7022.2	10123.0	12675.3	12960.9	12911.0	12448.6	11845.7	8676.9
65°	1654.7	1663.7	2275.7	3477.1	5186.2	6636.8	7434.7	7520.8	6292.3	5789.1	4116.3
67.5°	1201.3	1246.7	1636.5	2126.1	2443.5	2733.6	3350.2	3286.7	2488.8	2366.4	2194.1
70°	933.9	974.7	1328.3	1622.9	1473.3	1473.3	1604.8	1659.2	1772.5	1822.4	1881.3
72.5°	680.0	711.7	1015.5	1119.7	965.6	1038.1	1201.3	1328.3	1446.1	1464.3	1532.3
75°	466.9	494.1	666.4	616.5	580.3	716.3	879.5	997.3	1083.5	1128.8	1169.6
77.5°	303.7	312.8	380.8	321.9	371.7	462.4	571.2	670.9	757.1	793.3	802.4
80°	136.0	149.6	163.2	204.0	258.4	330.9	408.0	489.6	544.0	557.6	584.8
82.5°	77.1	77.1	99.7	145.1	190.4	240.3	294.7	353.6	417.1	430.7	426.1
85°	40.8	40.8	58.9	86.1	117.9	140.5	136.0	140.5	149.6	172.3	167.7
87.5°	13.6	13.6	18.1	18.1	22.7	27.2	22.7	31.7	40.8	40.8	40.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9311.5	9311.5	9311.5	9311.5	9311.5	9311.5	9311.5	9311.5	9311.5	9311.5	9311.5
2.5°	9297.9	9338.7	9284.3	9402.2	9402.2	9379.5	9266.2	9302.5	9329.7	9329.7	9352.3
5°	9474.7	9461.1	9497.4	9356.9	9270.7	9239.0	9053.1	8962.5	8885.4	8880.9	8812.9
7.5°	9574.5	9538.2	9524.6	9420.3	9039.5	8808.3	8409.4	8178.2	8128.3	7951.5	8019.5
10°	9733.1	9801.1	9733.1	9166.5	8636.1	8105.7	7715.8	7357.6	7217.1	7103.8	7035.8
12.5°	10059.5	10027.8	9633.4	8867.3	8123.8	7493.6	6913.4	6537.1	6396.6	6296.8	6287.8
15°	10336.1	10177.4	9574.5	8395.8	7325.9	6655.0	6179.0	5911.5	5848.0	5857.1	5897.9
17.5°	10431.3	10322.5	9266.2	7906.2	6732.0	5943.2	5721.1	5680.3	5739.2	5807.2	5825.4
20°	10580.9	10408.6	9139.3	7239.8	5997.6	5499.0	5485.4	5630.4	5739.2	5839.0	5852.6
22.5°	10893.7	10458.5	8726.7	6609.6	5494.4	5367.5	5499.0	5621.4	5789.1	5870.7	5798.2
25°	10984.3	10349.7	8146.5	5852.6	5177.1	5285.9	5426.4	5594.2	5712.0	5757.4	5789.1
27.5°	11061.4	10181.9	7362.2	5349.4	5077.4	5281.4	5426.4	5567.0	5630.4	5671.2	5707.5
30°	11279.0	10132.1	6682.2	5013.9	5013.9	5190.7	5376.6	5412.8	5499.0	5548.8	5612.3
32.5°	11387.8	9787.5	5984.0	4800.8	4950.4	5236.0	5249.6	5317.6	5322.2	5363.0	5295.0
35°	11673.4	9542.7	5335.8	4646.7	4977.6	5190.7	5258.7	5217.9	4995.8	4887.0	4909.6
37.5°	11881.9	9420.3	4868.8	4628.6	4982.2	5240.6	5276.8	4968.6	4737.4	4556.0	4601.4
40°	12444.1	9116.6	4515.2	4596.8	5023.0	5295.0	5195.2	4859.8	4442.7	4256.8	4225.1
42.5°	12874.8	8899.0	4293.1	4560.6	5054.7	5372.0	5154.4	4642.2	4216.0	4043.8	4089.1
45°	13373.4	8849.1	4175.2	4569.6	5109.1	5412.8	5104.6	4474.4	4021.1	3953.1	3939.5
47.5°	13550.2	8491.0	4048.3	4492.6	5095.5	5399.2	4936.8	4347.5	3948.6	3957.6	3993.9
50°	13255.6	8123.8	3953.1	4333.9	5004.8	5276.8	4673.9	4179.8	3907.8	4021.1	4084.6
52.5°	12879.3	7747.5	3758.2	4120.8	4819.0	5086.4	4551.5	4170.7	3867.0	3830.7	3844.3
55°	12992.6	7439.2	3486.2	3830.7	4519.8	4732.8	4415.5	4084.6	3767.2	3631.2	3676.6
56°	12625.4	7121.9	3309.4	3649.4	4315.8	4506.2	4347.5	4007.5	3685.6	3595.0	3595.0
57.5°	11587.3	6056.6	3078.2	3359.2	3885.1	4111.8	4216.0	3962.2	3595.0	3436.3	3440.8
60°	8545.4	4306.7	2760.8	2960.3	3218.7	3400.0	3885.1	3835.2	3368.3	3259.5	3218.7
62.5°	5267.8	3146.2	2534.1	2611.2	2742.7	2892.3	3391.0	3472.6	3128.0	3010.2	2983.0
65°	2951.2	2407.2	2361.9	2393.6	2457.1	2534.1	2815.2	2996.6	2760.8	2579.5	2570.4
67.5°	2157.9	2153.3	2189.6	2216.8	2244.0	2244.0	2312.0	2384.5	2352.8	2207.7	2194.1
70°	1917.6	1931.2	1958.4	1962.9	1972.0	1940.3	1885.9	1863.2	1899.5	1808.8	1790.7
72.5°	1582.1	1627.5	1659.2	1663.7	1613.9	1573.1	1500.5	1423.5	1396.3	1378.1	1373.6
75°	1214.9	1246.7	1260.3	1255.7	1237.6	1178.7	1092.5	1015.5	965.6	911.2	938.4
77.5°	820.5	865.9	888.5	888.5	861.3	770.7	729.9	670.9	621.1	562.1	571.2
80°	575.7	607.5	643.7	639.2	593.9	548.5	489.6	435.2	394.4	349.1	344.5
82.5°	430.7	448.8	466.9	457.9	426.1	380.8	340.0	290.1	244.8	213.1	213.1
85°	154.1	167.7	204.0	213.1	231.2	231.2	194.9	163.2	131.5	108.8	108.8
87.5°	45.3	45.3	49.9	49.9	45.3	49.9	40.8	45.3	49.9	31.7	31.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)